

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A projection screen comprising a substrate having thereon:

one or more fluorescent materials that:

emit visible light with an incidence of one or more ranges of wavelengths of light; and

absorb visible light in at least one other range of wavelengths that is not included in the one or more ranges[[,]]; and

one or more absorption materials, disposed between the substrate and the one or more fluorescent materials, that reflect wavelengths of light in the one or more ranges and absorb wavelengths of light that are not included in the at least one other range nor in the one or more ranges,

wherein the visible light emitted by the one or more fluorescent materials provides an image with an incidence of an output from a projector having wavelengths of light in the one or more ranges and the output from the projector is directional and the emitted visible light has a Lambertian distribution.

2-4. (Canceled).

5. (Original) A projection screen as described in claim 1, wherein the substrate is transparent to the visible light.

6. (Original) A projection screen as described in claim 1, wherein the one or more ranges include:

a range of red wavelengths of visible light;
a range of green wavelengths of visible light; and
a range of blue wavelengths of visible light.

7. (Original) A projection screen as described in claim 1, wherein the emitted visible light includes:

- a range of red wavelengths of visible light;
- a range of green wavelengths of visible light; and
- a range of blue wavelengths of visible light.

8. (Original) A projection screen as described in claim 1, wherein the one or more ranges include a range of ultraviolet wavelengths.

9. (Original) A projection screen as described in claim 1, wherein the one or more ranges include a range of ultraviolet wavelengths and a range of visible wavelengths.

10. (Canceled)

11. (Currently amended) A projection screen comprising a substrate having thereon:

one or more fluorescent materials that:

emit visible light with an incidence of one or more ranges of UV wavelengths of light; and

one or more absorption materials, between the substrate and the one or more fluorescent materials, that absorb wavelengths of light that are not included in the one or more ranges and are not included in the at least one other range and reflect wavelengths of light that are included in the one or more ranges,

wherein the visible light emitted by the one or more fluorescent materials contributes to an image with an incidence of an output from a projector having wavelengths of light in the one or more ranges and the output from the projector is directional and the emitted visible light has a Lambertian distribution.

12. (Canceled)

13. (Original) A projection screen as described in claim 11, wherein the emitted visible light includes:

a range of red wavelengths of visible light;
a range of green wavelengths of visible light; and
a range of blue wavelengths of visible light.

14-15. (Canceled).

16. (Currently amended) A projection system comprising:
a projector that is configured to project an image composed of one or more ranges of wavelengths of light; and
a projection screen for receiving the projected image comprising:
a substrate;
a fluorescent material that is configured to:
emit visible light with the incidence of the one or more ranges of wavelengths of light wherein the emitted visible light has a Lambertian distribution; and
absorb visible wavelengths of light in at least one other range that is not included in the one or more ranges; and
an absorption material disposed between the substrate and the one or more fluorescent materials which is configured to:
absorb wavelengths of light that are not included in the one or more ranges and are not included in the at least one other range; and
reflect wavelengths of light in the one or more ranges.

17-19. (Canceled).

20. (Original) A projection system as described in claim 16, wherein the emitted visible light includes:
a range of red wavelengths of visible light;
a range of green wavelengths of visible light; and
a range of blue wavelengths of visible light.

21. (Original) A projection system as described in claim 16, wherein the one or more ranges include a range of ultraviolet wavelengths.

22. (Original) A projection system as described in claim 16, wherein the one or more ranges include a range of ultraviolet wavelengths and a range of visible wavelengths.

23. (Currently amended) A projector comprising:

a light source that outputs one or more ranges of UV wavelengths of light; and

an image forming device that forms an image composed of the one or more ranges of UV wavelengths of light such that with the incidence of the image on a projection screen ~~that includes one or more fluorescent materials~~, the projection screen emits visible light such that the image is viewable by the human eye, the projection screen including:

one or more fluorescent materials that emit visible light with the incidence of the one or more ranges of wavelengths of light and absorb wavelengths of light in at least one other range; and

one or more absorption materials, between a substrate and the one or more fluorescent materials, that absorb wavelengths of light that are not included in the one or more ranges and are not included in at least one other range and reflect wavelengths of the one or more ranges,

wherein the image that is formed by the projector is directional and the emitted visible light has a Lambertian distribution.

24. (Original) A projector as described in claim 23, wherein the emitted visible light includes:

a range of red wavelengths of visible light;
a range of green wavelengths of visible light; and
a range of blue wavelengths of visible light.

25. (Canceled)

26. (Currently amended) A projection system comprising:

a projector that is configured to project an image composed of one or more ranges of UV wavelengths of light; and

a projection screen for receiving the projection image that is configured to that includes:

one or more fluorescent materials that emit visible light with the incidence of the one or more ranges of wavelengths of light and absorb wavelengths of light in at least one other range, wherein the projected image is directional and the emitted visible light has a Lambertian distribution; and

one or more absorption materials, between a substrate and the one or more fluorescent materials, that absorb wavelengths of light that are not included in the one or more ranges and are not included in the at least one other range and reflect wavelengths of light in the one or more ranges.

27-28. (Canceled)

29. (Original) A projection system as described in claim 26, wherein the emitted visible light includes:

a range of red wavelengths of visible light;
a range of green wavelengths of visible light; and
a range of blue wavelengths of visible light.

30-34. (Canceled)

35. (Currently amended) A method comprising:

forming over a substrate one or more absorption materials that reflect wavelengths of light in one or more ranges and absorb wavelengths of light that are not included in the one or more ranges and are not included in the at least one other range;

forming over a substrate the one or more absorption materials one or more fluorescent materials that emit visible light with an incidence of the one or more ranges of wavelengths of light and absorb wavelengths of light in the at least one other range; and

forming over the substrate one or more absorption materials that absorb visible light in at least one other range of wavelengths that is not included in the one or more ranges,

wherein the visible light emitted by the one or more fluorescent materials provides an image with an incidence of an output from a projector having wavelengths of light in the one or more ranges and the emitted visible light has a Lambertian distribution.

36. (Original) A method as described in claim 35, wherein the one or more ranges include a range of ultraviolet wavelengths.

37. (Canceled).

38. (Original) A method as described in claim 35, wherein the one or more ranges include a range of ultraviolet wavelengths and a range of visible wavelengths.

39. (Original) A projection screen comprising a structure made by the method of claim 35.

40. (Currently amended) A system comprising:
means for projecting an image composed of one or more ranges of wavelengths of light; and
means for displaying the projected image that is configured to:
emit visible light from one or more fluorescent materials with an incidence of the one or more ranges of wavelengths of light wherein the emitted visible light has a Lambertian distribution; and
absorb visible wavelengths of light with the one or more fluorescent materials in at least one other range that is not included in the one or more ranges;
absorb wavelengths of light, with one or more absorption materials, that are not included in the one or more ranges nor in the at least one other range; and
reflect wavelengths of light in the one or more ranges with the one or more absorption materials, wherein the one or more absorption materials are between a substrate and the one or more fluorescent materials.

41. (Original) A system as described in claim 40, wherein the projecting means includes a projector.

42. (Original) A system as described in claim 40, wherein the displaying means includes a projection screen.